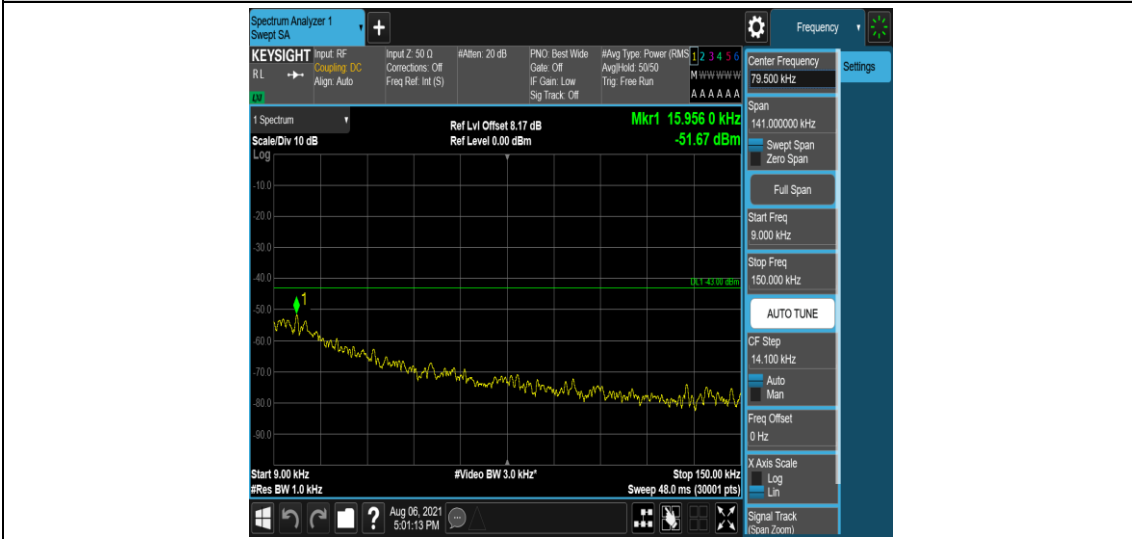




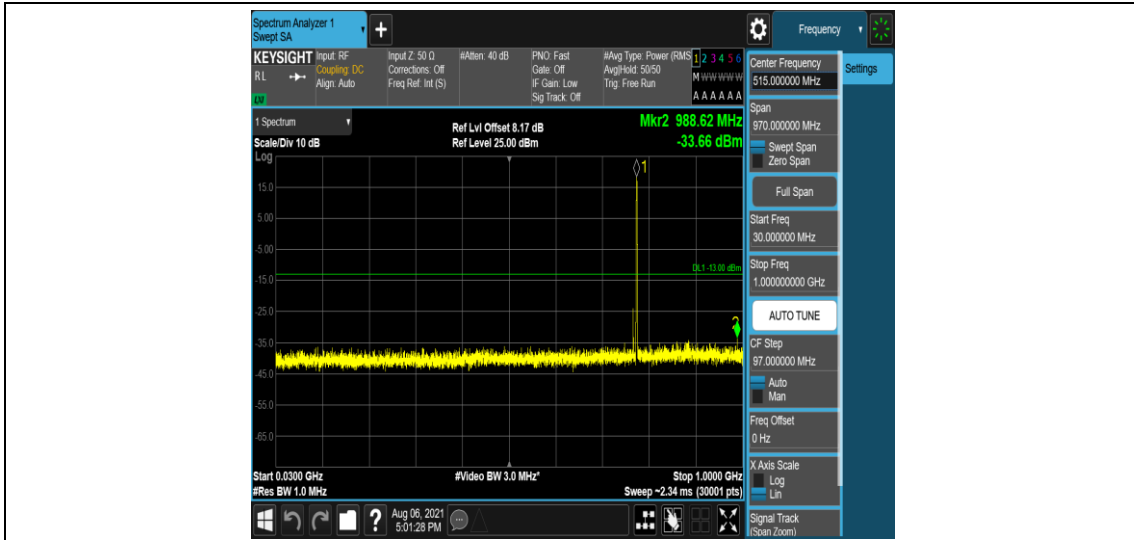
Band13-5MHz-16QAM-23205-1-0-Low-12000-26500--52.38-PASS



Band13-5MHz-16QAM-23230-1-0-Low-0.009-0.15--51.67-PASS



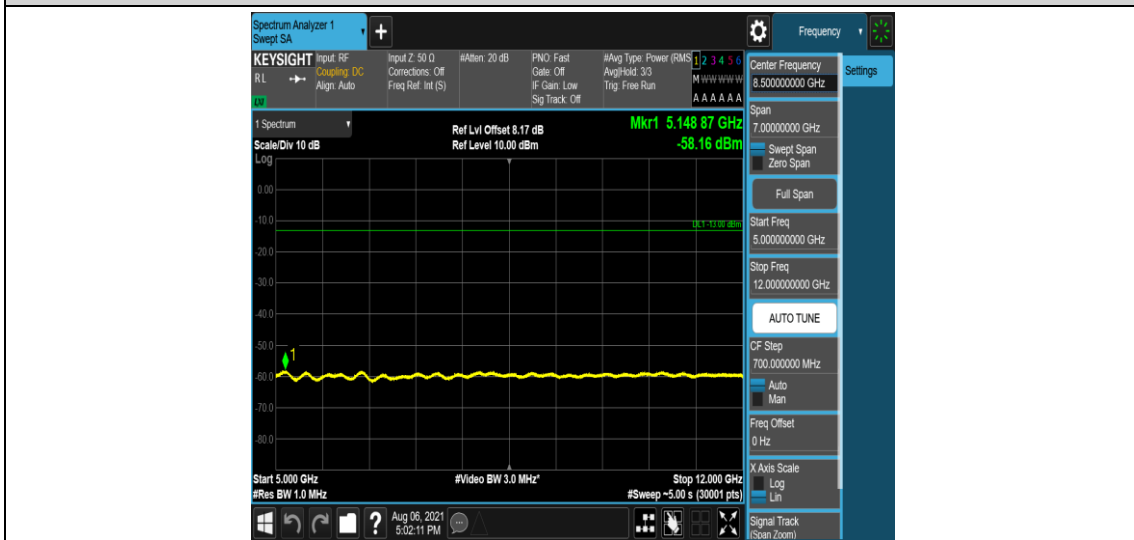
Band13-5MHz-16QAM-23230-1-0-Low-0.15-30--49.16-PASS



Band13-5MHz-16QAM-23230-1-0-Low-30-1000--33.66-PASS



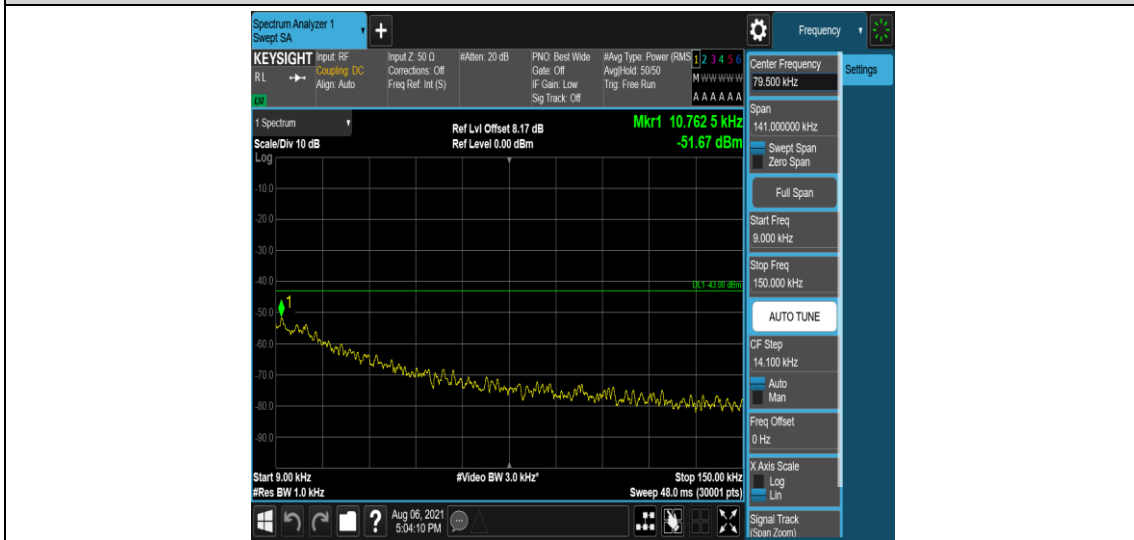
Band13-5MHz-16QAM-23230-1-0-Low-1000-5000--36.84-PASS



Band13-5MHz-16QAM-23230-1-0-Low-5000-12000--58.16-PASS



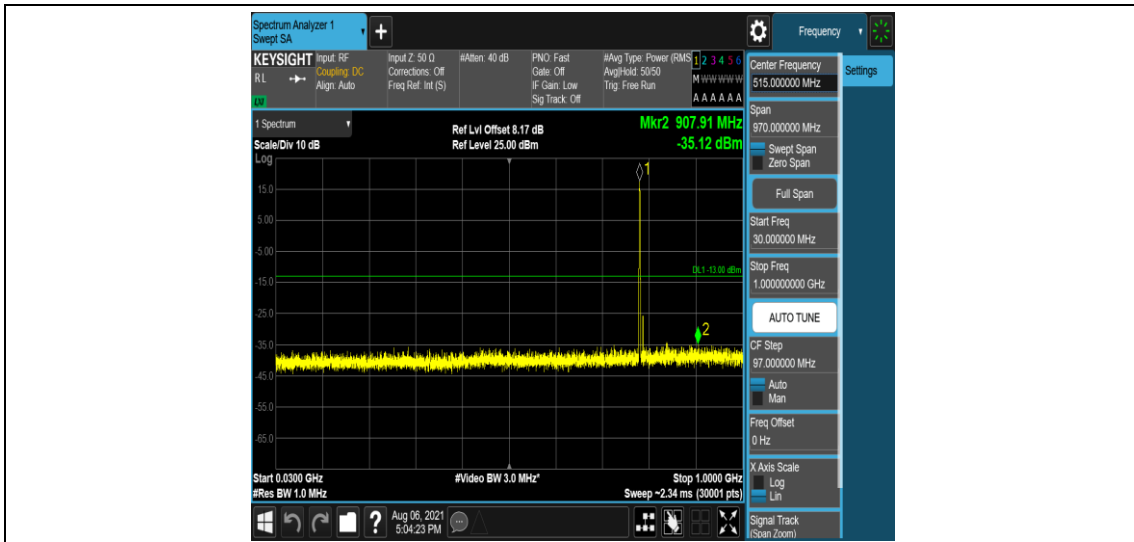
Band13-5MHz-16QAM-23230-1-0-Low-12000-26500--52.6-PASS



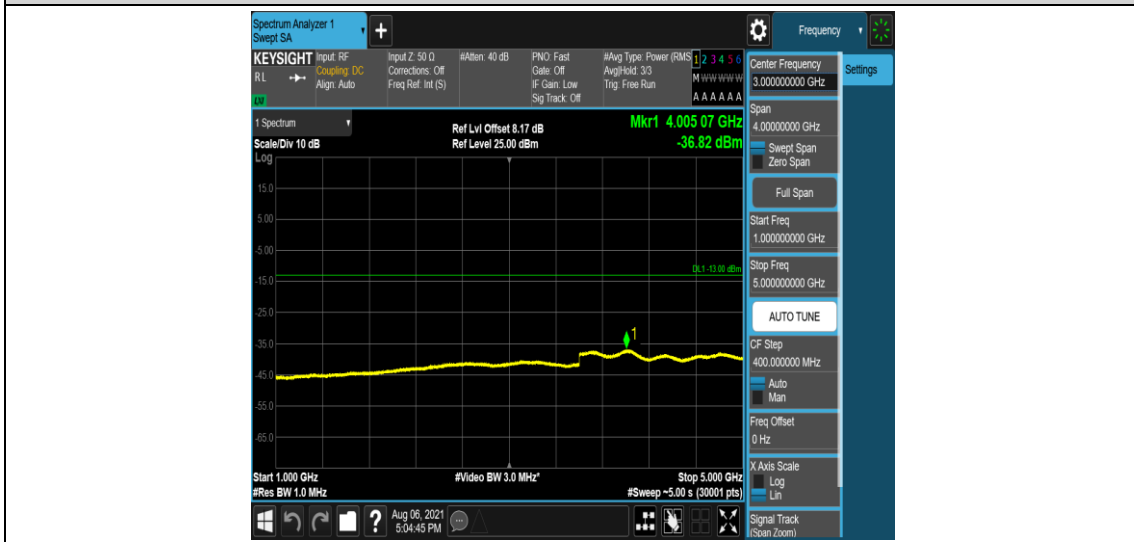
Band13-5MHz-16QAM-23255-1-0-High-0.009-0.15--51.67-PASS



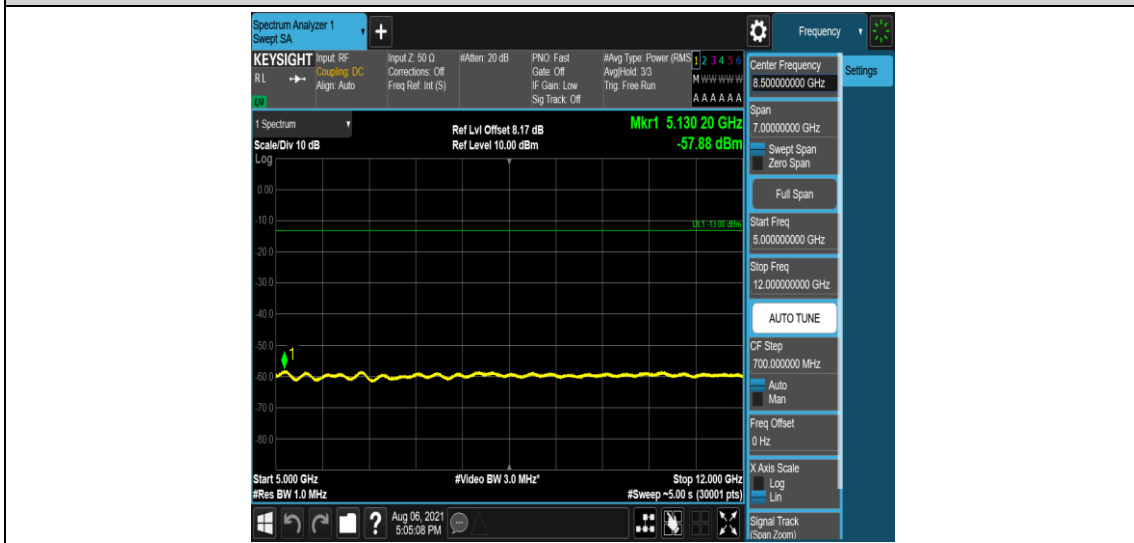
Band13-5MHz-16QAM-23255-1-0-High-0.15-30--52.14-PASS



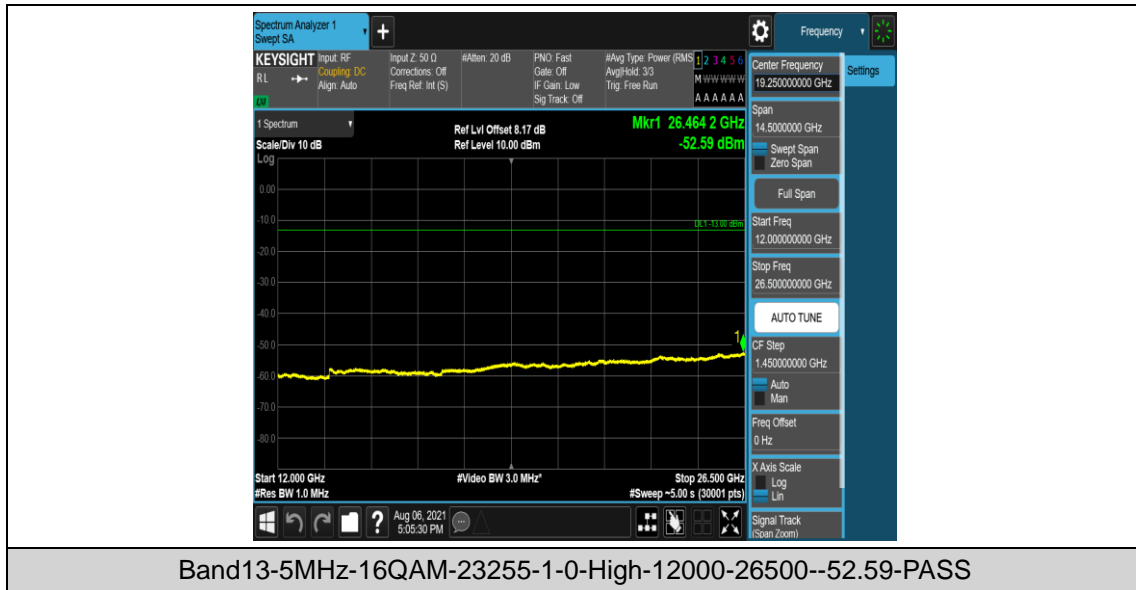
Band13-5MHz-16QAM-23255-1-0-High-30-1000--35.12-PASS



Band13-5MHz-16QAM-23255-1-0-High-1000-5000--36.82-PASS



Band13-5MHz-16QAM-23255-1-0-High-5000-12000--57.88-PASS



Appendix F: Frequency Stability for M1

Test Result

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-0.67	-0.000860	± 2.5	PASS
		VN	TN	2.85	0.003656	± 2.5	PASS
		VH	TN	0.85	0.001090	± 2.5	PASS
	MCH	VL	TN	0.93	0.001189	± 2.5	PASS
		VN	TN	1.39	0.001777	± 2.5	PASS
		VH	TN	4.52	0.005780	± 2.5	PASS
	HCH	VL	TN	-0.05	-0.000064	± 2.5	PASS
		VN	TN	2.93	0.003735	± 2.5	PASS
		VH	TN	1	0.001275	± 2.5	PASS
16QAM	LCH	VL	TN	3.75	0.004811	± 2.5	PASS
		VN	TN	-0.8	-0.001026	± 2.5	PASS
		VH	TN	-2	-0.002566	± 2.5	PASS
	MCH	VL	TN	1.37	0.001752	± 2.5	PASS
		VN	TN	0.31	0.000396	± 2.5	PASS
		VH	TN	1.02	0.001304	± 2.5	PASS
	HCH	VL	TN	3.5	0.004461	± 2.5	PASS
		VN	TN	-0.47	-0.000599	± 2.5	PASS
		VH	TN	3.05	0.003888	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.86	0.004952	± 2.5	PASS
		VN	-20	1.58	0.002027	± 2.5	PASS
		VN	-10	3.93	0.005042	± 2.5	PASS
		VN	0	1.71	0.002194	± 2.5	PASS
		VN	10	1.11	0.001424	± 2.5	PASS
		VN	20	2.8	0.003592	± 2.5	PASS
		VN	30	2.09	0.002681	± 2.5	PASS
		VN	40	1.11	0.001424	± 2.5	PASS
		VN	50	2.42	0.003105	± 2.5	PASS
	MCH	VN	-30	1.73	0.002212	± 2.5	PASS

	VN	VN	-20	3.25	0.004156	± 2.5	PASS
		VN	-10	-1.51	-0.001931	± 2.5	PASS
		VN	0	1.93	0.002468	± 2.5	PASS
		VN	10	2.96	0.003785	± 2.5	PASS
		VN	20	3.13	0.004003	± 2.5	PASS
		VN	30	1.91	0.002442	± 2.5	PASS
		VN	40	3.81	0.004872	± 2.5	PASS
		VN	50	4.42	0.005652	± 2.5	PASS
	HCH	VN	-30	3.16	0.004028	± 2.5	PASS
		VN	-20	-0.08	-0.000102	± 2.5	PASS
		VN	-10	4.17	0.005315	± 2.5	PASS
		VN	0	1.05	0.001338	± 2.5	PASS
		VN	10	3.64	0.004640	± 2.5	PASS
		VN	20	-0.12	-0.000153	± 2.5	PASS
		VN	30	0.64	0.000816	± 2.5	PASS
		VN	40	3.39	0.004321	± 2.5	PASS
		VN	50	-1.64	-0.002091	± 2.5	PASS
		16QAM	LCH	VN	-30	2.37	0.003040
VN	-20			4.63	0.005940	± 2.5	PASS
VN	-10			-1.02	-0.001309	± 2.5	PASS
VN	0			-1.87	-0.002399	± 2.5	PASS
VN	10			2.5	0.003207	± 2.5	PASS
VN	20			3.94	0.005055	± 2.5	PASS
VN	30			1.26	0.001616	± 2.5	PASS
VN	40			4.53	0.005811	± 2.5	PASS
VN	50			-0.96	-0.001232	± 2.5	PASS
MCH	VN		-30	3.32	0.004246	± 2.5	PASS
	VN		-20	0.17	0.000217	± 2.5	PASS
	VN		-10	0.24	0.000307	± 2.5	PASS
	VN		0	0.91	0.001164	± 2.5	PASS
	VN		10	-0.07	-0.000090	± 2.5	PASS
	VN		20	4.47	0.005716	± 2.5	PASS
	VN		30	0.41	0.000524	± 2.5	PASS
	VN		40	3.1	0.003964	± 2.5	PASS
	VN		50	2.67	0.003414	± 2.5	PASS
HCH	VN		-30	3.61	0.004602	± 2.5	PASS
	VN		-20	-0.41	-0.000523	± 2.5	PASS
	VN		-10	2.64	0.003365	± 2.5	PASS
	VN		0	-0.07	-0.000089	± 2.5	PASS
	VN		10	-0.48	-0.000612	± 2.5	PASS

		VN	20	-1.24	-0.001581	± 2.5	PASS
		VN	30	2.78	0.003544	± 2.5	PASS
		VN	40	0.29	0.000370	± 2.5	PASS
		VN	50	-1.89	-0.002409	± 2.5	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	MCH	VL	TN	-0.97	-0.001240	± 2.5	PASS
		VN	TN	2.47	0.003159	± 2.5	PASS
		VH	TN	0.73	0.000934	± 2.5	PASS
16QAM	MCH	VL	TN	0.36	0.000460	± 2.5	PASS
		VN	TN	4.55	0.005818	± 2.5	PASS
		VH	TN	1.49	0.001905	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	MCH	VN	-30	3.07	0.003926	± 2.5	PASS
		VN	-20	0.89	0.001138	± 2.5	PASS
		VN	-10	-0.34	-0.000435	± 2.5	PASS
		VN	0	0.63	0.000806	± 2.5	PASS
		VN	10	4.98	0.006368	± 2.5	PASS
		VN	20	-1.88	-0.002404	± 2.5	PASS
		VN	30	1.32	0.001688	± 2.5	PASS
		VN	40	0.5	0.000639	± 2.5	PASS
		VN	50	-0.86	-0.001100	± 2.5	PASS
16QAM	MCH	VN	-30	1.92	0.002455	± 2.5	PASS
		VN	-20	2.4	0.003069	± 2.5	PASS
		VN	-10	0.56	0.000716	± 2.5	PASS
		VN	0	0.54	0.000691	± 2.5	PASS
		VN	10	0.85	0.001087	± 2.5	PASS
		VN	20	-1.38	-0.001765	± 2.5	PASS
		VN	30	-1.04	-0.001330	± 2.5	PASS
		VN	40	-0.09	-0.000115	± 2.5	PASS
		VN	50	4.55	0.005818	± 2.5	PASS